

**Gustavus Adolphus College
Sigma Xi Symposium**

Friday, May 2, 2008

	Session 1A Nobel 105 Scott Bur, Chair	Session 1B Nobel 305 Jon Grinnell, Chair
1:45	<i>Semantic Priming during Binocular Suppression</i> Brandon Baartman, Kristine McGlennen	
2:00	<i>Preparation and Reactivity of [1.1.1] Propellane</i> Joel Rindelraub	<i>Niche partitioning between native and exotic earthworms in Costa Rica</i> Christine Askham
2:15	<i>Identification of an allosteric binding site in γ-glutamylcysteine ligase</i> Kelly Rozenboom, Colin Boettcher	<i>Belowground Analysis of a Historic Botrychium Population in Bonny Prairie Natural Area, Colorado</i> Whit Hohman, Steph Lewis, Amy Waldner
2:30	<i>Identification of an allosteric binding site in γ-glutamylcysteine ligase</i> Colin Boettcher, Kelly Rozenboom	<i>Photolysis of Sulfonyl Group Herbicides: Nicosulfuron and Flumetsulam</i> Mallory Richards
2:45	<i>Synthesis of a Pyrrolizidine Alkaloid</i> David Guptill and Nina Serratore	<i>Excitation of Microcantilevers using Ultrasound Radiation Force</i> Eric Ofstad and Sam Barthell
3:00	<i>Studies on Diels-Alder Reactions of Substituted Siloxy-furans</i> Brittany Murphy	<i>Correcting for Particle Size Selectivity of Unsupported Pb²¹⁰ and Nuclear Fallout Cs¹³⁷</i> Peter Philippi

Poster Session and Refreshments

3:15-3:45 Nobel Lobby

3:15 to 3:45	<i>ASIC3 and P2X involvement in ischemic pain sensation</i> Brandon Baartman	<i>Anion-exchange Resin-supported Sulfo-N-Hydroxysuccinimide:</i> Drew Corbett
	<i>The Investigation of Excited State Dynamics in 7-azaindole: Resonance Raman Spectroscopy and Computational Simulation Techniques</i> Nathan Erickson, Molly Beernink, Nathaniel Swenson	<i>Analysis of the Homogeneity of the New Ulm Till of the Des Moines Lobe of the Laurentide Ice Sheet: Implications for a Deforming Bed</i> Jessica Hill
	<i>Characterization of auditory responses in the ventral nerve cord of <i>Periplaneta americana</i></i> Asitha Jayawardena	<i>Magnetic Interactions and the Mossbauer Effect in Ferrihydrite Nanoparticles</i> Anna Lindquist
	<i>The Relationship Between Empathy, Mirror Neuron Activity, and Heart Rate</i> Matt Novakovic, Eric Miller	<i>Characterization of Speech Intelligibility in Christ Chapel</i> Jing Han Soh, Daniel Mellema, Benjamin Wolf
	Session 2A Nobel 222 Jonathan Smith, Chair	Session 2B Nobel 201 Margaret Bloch Qazi, Chair
3:45	<i>Co-Rumination and Autobiographical Memory</i> Naomi Garbisch	<i>Hemizygous effects on female sperm storage in <i>Drosophila melanogaster</i></i> Isaac Weeks
4:00	<i>Excited State Dynamics in 7-azaindole</i> Nathan Erickson, Molly Beernink	<i>Conservation genetics in the endemic streamfish <i>Cottus marginatus</i>.</i> Sarah Betzler
4:15	<i>Direct and Indirect Photochemical Degradation Pathways of Imazethapyr</i> Emily Pelton	<i>Electrophysiological Characterization of Primary Afferent Neurons Responsive to Cowhage-induced Itch</i> Danielle Gergen, Jenna Kesty, Nick Murray